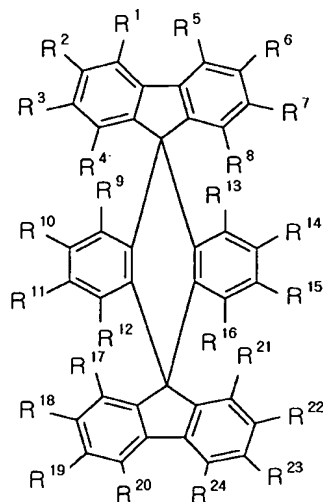


### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

#### Listing of Claims:

1. (Original) A chemical compound of Chemical Formula I:



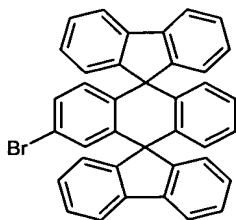
Chemical Formula 1

wherein R1 through R24 are substituent groups, identical or different, and wherein not all of R1 through R24 are hydrogen.

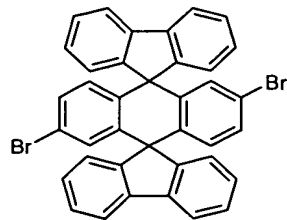
2. (Previously Presented) The chemical compound of Claim 1, wherein one or more of R1-R24 are selected from the aryl group consisting of phenyl, biphenyl, terphenyl, benzyl, naphthyl, anthracenyl, tetracenyl, pentacenyl, perylenyl coronenyl, and heteroaryl, which are either substituted or unsubstituted.

3. (Previously Presented) The chemical compound of Claim 2, wherein the aryl groups are further substituted with one or more phenyl, biphenyl, terphenyl, benzyl, naphthyl, anthracenyl, tetracenyl, pentacenyl, perylenyl, coronenyl or heteroaryl, which are either substituted or unsubstituted.

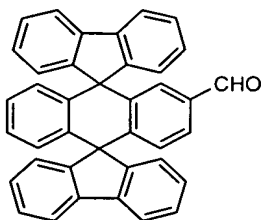
4. (Original) The chemical compound of Claim 1, wherein one or more of the R1-R24 are selected from the heteroaryl group consisting of thiophenyl, thiazolyl, oxazolyl, imidazolyl, and pyrazinyl, either substituted or unsubstituted.
5. (Previously Presented) The chemical compound of Claim 1, wherein one or more of R1-R24 are selected from the group consisting of amines with at least one aryl substituent and aryl including phenyl, biphenyl, terphenyl, benzyl, naphthyl, anthracenyl, tetracenyl, pentacenyl, perylenyl, coronenyl and heteroaryl.
6. (Currently Amended) The chemical compound of Claim 1, wherein at least one of R1-R24 is ~~anthracenyl~~ anthracenyl or heteroaryl.
7. (Original) The chemical compound of Claim 1, wherein the substituent groups R1 through R24 can be substituted by one or more organic moieties satisfying General Formula I.
8. (Original) The chemical compound of Claim 1, wherein one or more of the R3, R7, R10, R11, R14, R15, R18, and R22 are substituted with non-hydrogen substituent groups.
9. (Original) The chemical compound of Claim 1, wherein one or more pairs of R3 and R7; R18 and R22; R10 and R15; and R11 and R14 are substituted with non-hydrogen substituent groups.
10. (Original) The chemical compound of Claim 1, wherein the compound is selected from the group consisting of Chemical Compounds 1-11, 100-137, 200-222, 300-308, and 400-413 as shown below, and wherein "Br" in Chemical Compounds 1, 2 and 5-7 may be substituted with another leaving group:



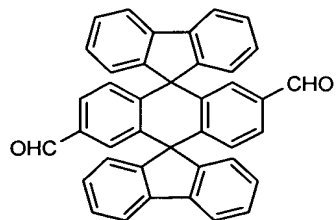
Chemical Compound 1



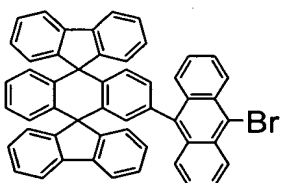
Chemical Compound 2



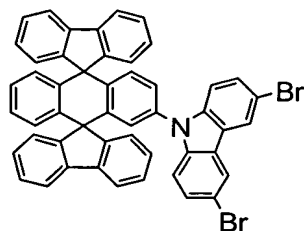
Chemical Compound 3



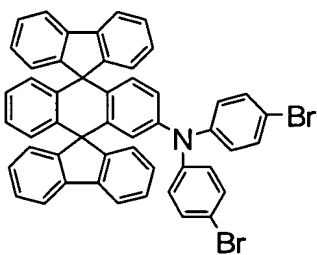
Chemical Compound 4



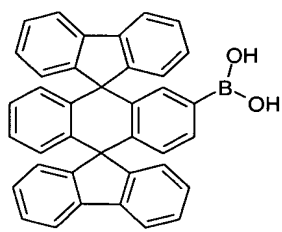
Chemical Compound 5



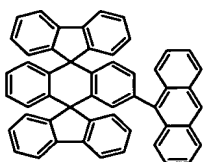
Chemical Compound 6



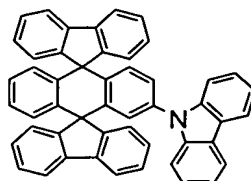
Chemical Compound 7



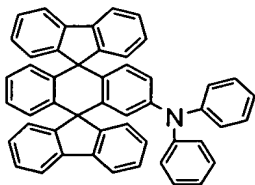
Chemical Compound 8



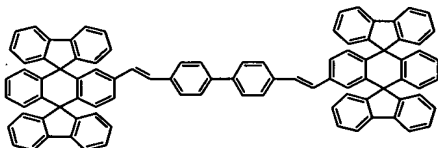
Chemical Compound 9



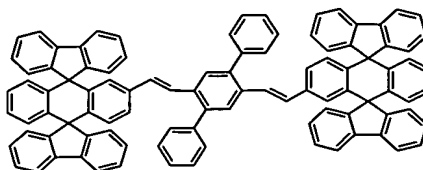
Chemical Compound 10



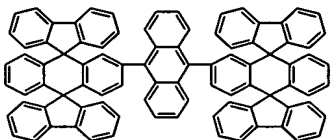
Chemical Compound 11



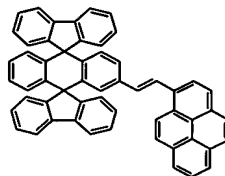
Chemical Compound 100



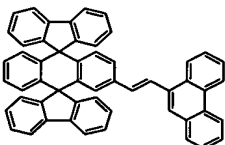
Chemical Compound 101



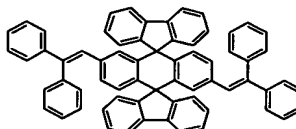
Chemical Compound 102



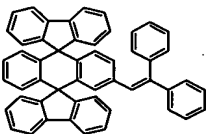
Chemical Compound 103



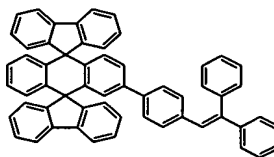
Chemical Compound 104



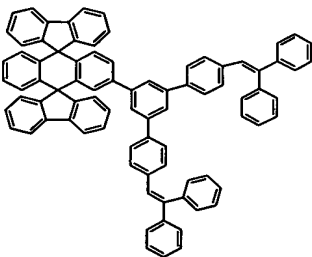
Chemical Compound 105



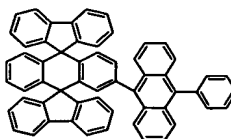
Chemical Compound 106



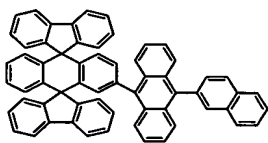
Chemical Compound 107



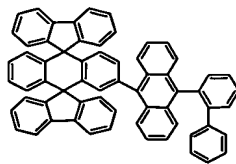
Chemical Compound 108



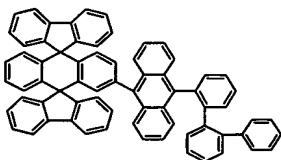
Chemical Compound 109



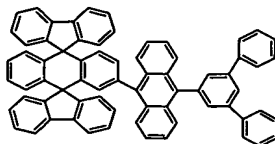
Chemical Compound 110



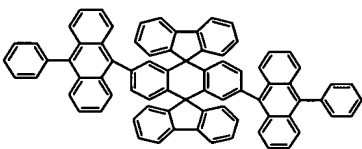
Chemical Compound 111



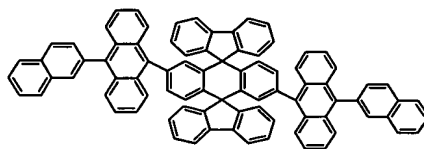
Chemical Compound 112



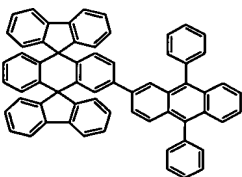
Chemical Compound 113



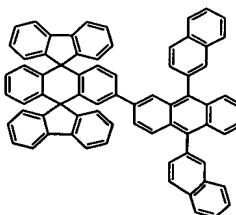
Chemical Compound 114



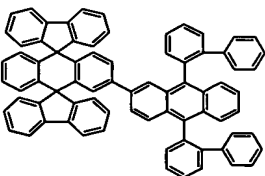
Chemical Compound 115



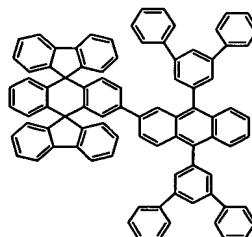
Chemical Compound 116



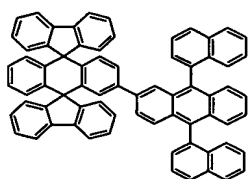
Chemical Compound 117



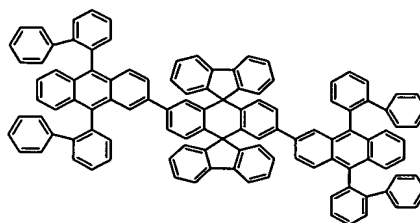
Chemical Compound 118



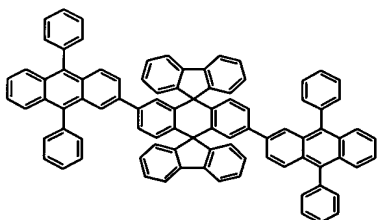
Chemical Compound 119



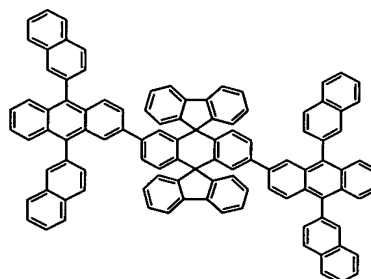
Chemical Compound 120



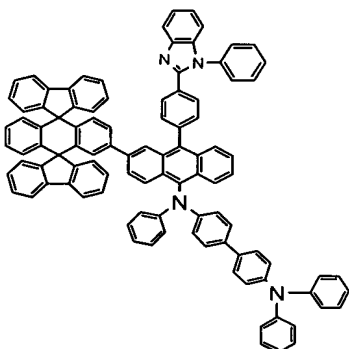
Chemical Compound 121



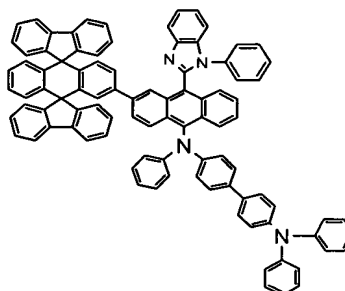
Chemical Compound 122



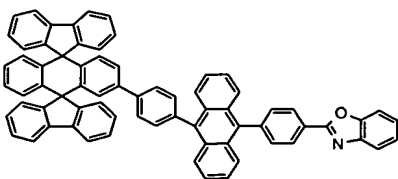
Chemical Compound 123



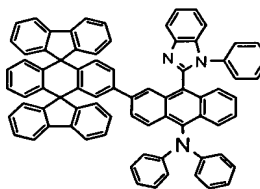
Chemical Compound 124



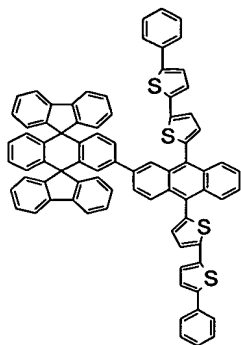
Chemical Compound 125



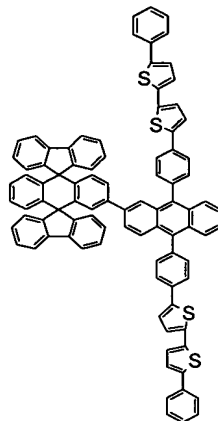
Chemical Compound 126



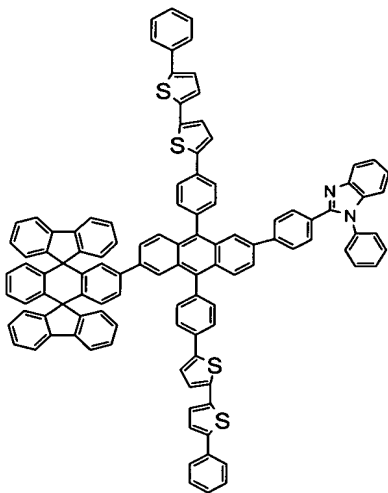
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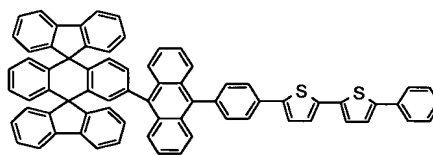
Chemical Compound 128



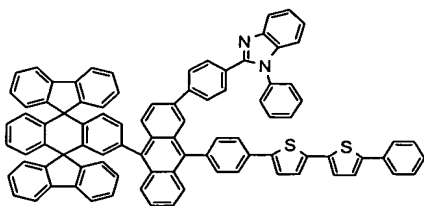
Chemical Compound 129



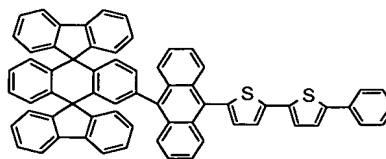
Chemical Compound 130



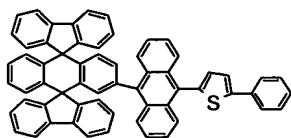
Chemical Compound 131



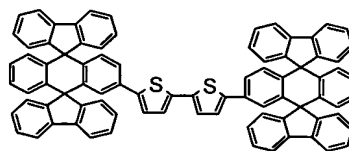
Chemical Compound 132



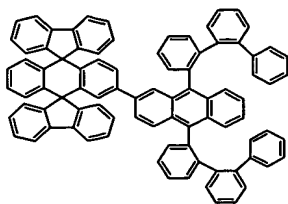
Chemical Compound 133



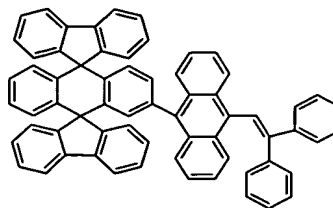
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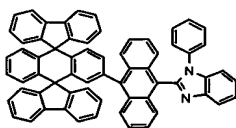
Chemical Compound 135



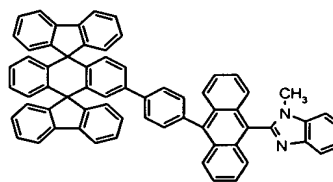
Chemical Compound 136



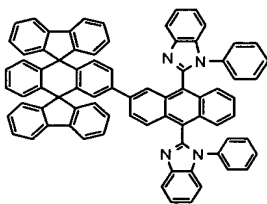
Chemical Compound 137



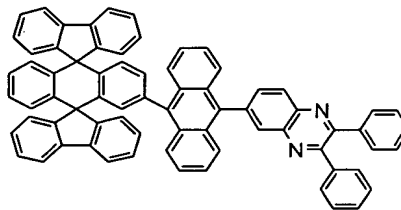
Chemical Compound 200



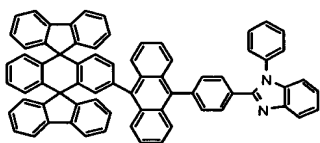
Chemical Compound 201



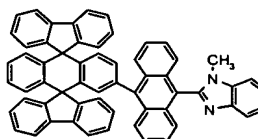
Chemical Compound 202



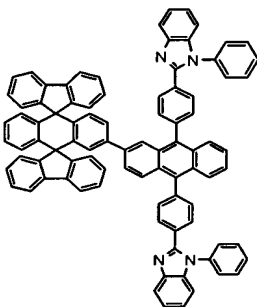
Chemical Compound 203



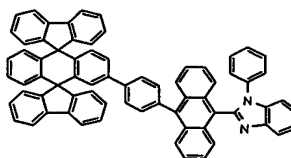
Chemical Compound 204



Chemical Compound 205

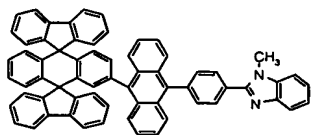


Chemical Compound 206

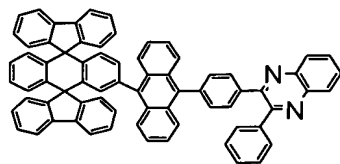


Chemical Compound 207

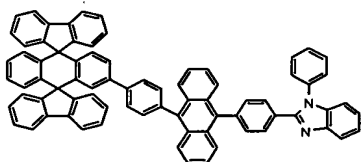




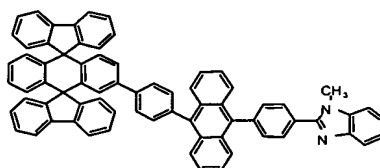
Chemical Compound 208



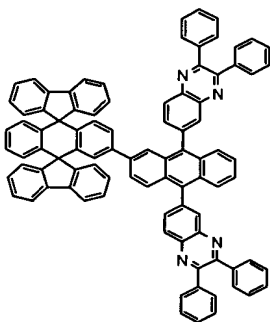
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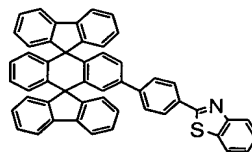
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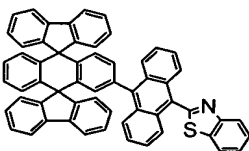
Chemical Compound 211



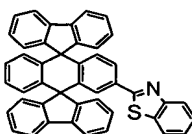
Chemical Compound 212



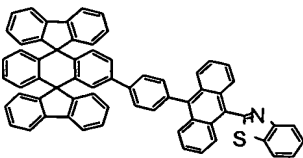
Chemical Compound 213



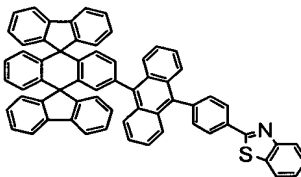
Chemical Compound 214



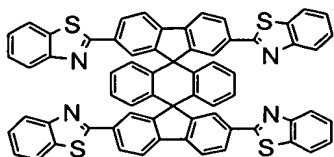
Chemical Compound 215



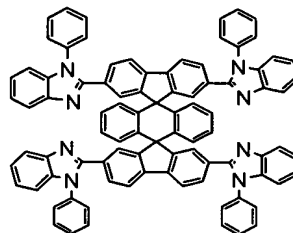
Chemical Compound 216



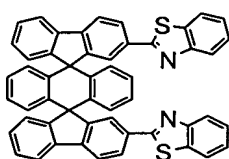
Chemical Compound 217



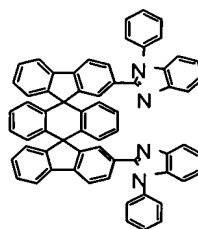
Chemical Compound 218



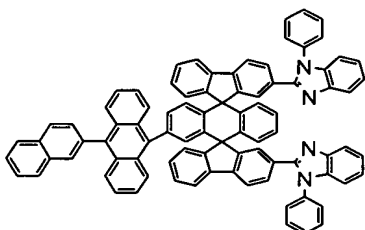
Chemical Compound 219



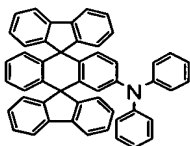
Chemical Compound 220



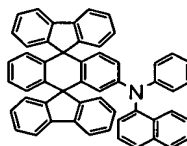
Chemical Compound 221



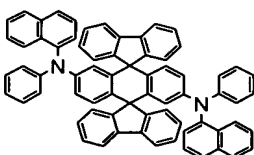
Chemical Compound 222



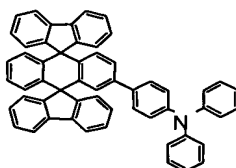
Chemical Compound 300



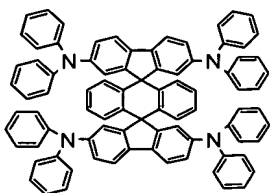
Chemical Compound 301



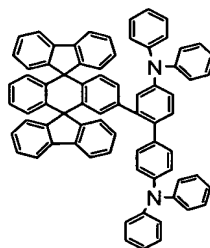
Chemical Compound 302



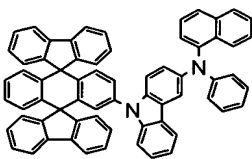
Chemical Compound 303



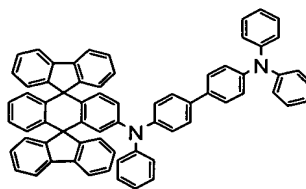
Chemical Compound 304



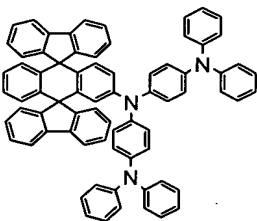
Chemical Compound 305



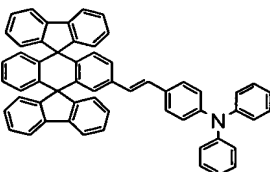
Chemical Compound 306



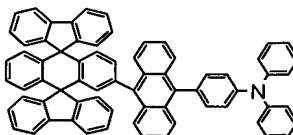
Chemical Compound 307



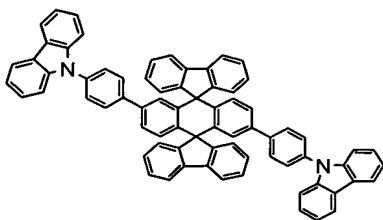
Chemical Compound 308



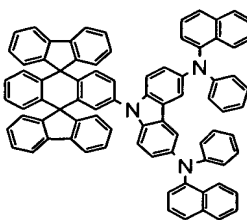
Chemical Compound 400



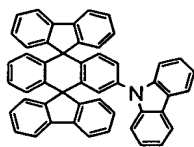
Chemical Compound 401



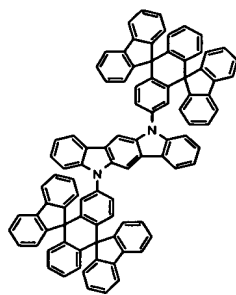
Chemical Compound 402



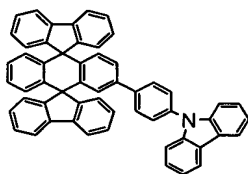
Chemical Compound 403



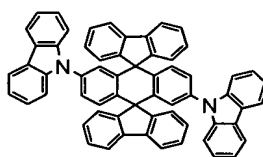
Chemical Compound 404



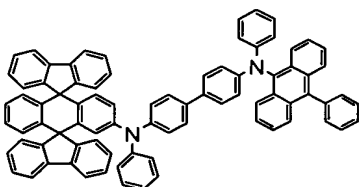
Chemical Compound 405



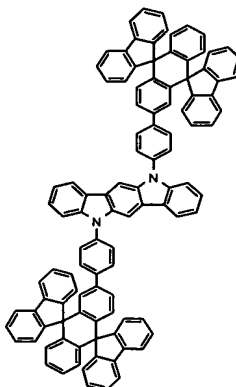
Chemical Compound 406



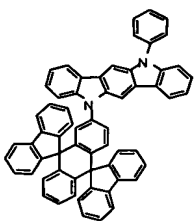
Chemical Compound 407



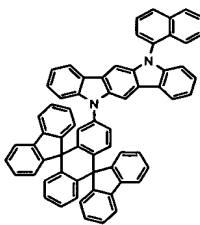
Chemical Compound 408



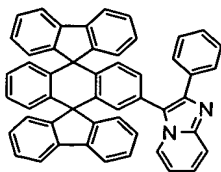
Chemical Compound 409



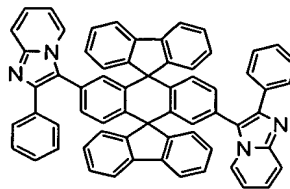
Chemical Compound 410



Chemical Compound 411



Chemical compound 412



Chemical Compound 413.

11. (Original) The chemical compound of Claim 1, wherein the compound has a melting point above about 300°C.
12. (Original) The chemical compound of Claim 1, wherein the compound has a band-gap corresponding to visible light emission.
13. (Original) The chemical compound of Claim 12, wherein the band-gap for the visible light emission is from about 1.8 eV to about 3.5 eV.
14. (Original) The chemical compound of Claim 12, wherein the band-gap corresponds to blue, green or red light emission.
15. (Original) The chemical compound of Claim 1, wherein the compound has a hole-transporting property.
16. (Original) The chemical compound of Claim 1, wherein hole mobility in the compound is about  $1 \times 10^{-7} \text{ cm}^2/\text{Vs}$  or greater.
17. (Original) The chemical compound of Claim 1, wherein the compound has an electron-transporting property.
18. (Original) The chemical compound of Claim 1, wherein electron mobility in the compound is about  $1 \times 10^{-7} \text{ cm}^2/\text{Vs}$  or greater.

19. (Original) The chemical compound of Claim 1, wherein the compound has a hole-injecting property.
20. (Original) The chemical compound of Claim 1, wherein the compound has the highest occupied molecular orbital (HOMO) level from about -4.0 eV to about -6.0 eV.
21. (Original) The chemical compound of Claim 1, wherein the compound has an electron-injecting property.
22. (Original) The chemical compound of Claim 1, wherein the compound has the lowest unoccupied molecular orbital (LUMO) level from about -2.5 eV to about -4.0 eV.
- 23-88. (Canceled)